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IN THE CLAIMS:

Please amend claims 1, 36, 42, 43, 48 and 52 as indicated in the following.

Claims Listing:

1. (Currently Amended) A system for concurrent wireless voice and data communications comprising:
 - (a) a first transceiving unit coupled to a voice network and to a data network;
 - (b) a second, mobile transceiving unit;
 - (c) the first transceiving unit operable to wirelessly transmit to the second, mobile transceiving unit voice information from the voice network over a first dedicated set of time slots of a plurality of time frames and data information from the data network over a second dedicated set of time slots of the plurality of time frames; and,
 - (d) the second, mobile transceiving unit to receive and separate the voice information and the data information from the first transceiving unit;wherein the first transceiving unit is further operable to implement a channel comprising the plurality of time frames, wherein a carrier frequency of the channel changes in a pseudo random manner; and
wherein each time slot of the first and second dedicated sets of time slots has a fixed time slot position for the plurality of time frames.
2. (Original) The system as recited in claim 1 wherein the data network is a V.90 modem coupled to a public switched telephone network.
3. (Original) The system as recited in claim 1 wherein the data network is an ISDN modem coupled to a public switched telephone network.
4. (Original) The system as recited in claim 1 wherein the data network is a DSL modem coupled to a public switched telephone network.

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5. (Original) The system as recited in claim 1 wherein the data network is a cable modem coupled to a CATV system.

6. (Original) The system as recited in claim 1 wherein the data network is an Ethernet network.

7. – 24. (Canceled)

25. (Previously Presented) The system as recited in claim 1 wherein a time slot containing data information further comprises a forward error correction code.

26. – 28. (Canceled)

29. (Previously Presented) The method as recited in claim 39 wherein a time slot containing data information further comprises a forward error correction code.

30. – 35. (Canceled)

36. (Currently Amended) The system as recited in claim 1 wherein the first transceiving unit is further operable to wirelessly receive from the second, mobile transceiving unit voice information over a third dedicated set of time slots of a plurality of time frames and data information over a fourth dedicated set of time slots of the plurality of time frames; and wherein each time slot of the third and forth dedicated sets of time slots has a fixed time slot position for the plurality of time frames.

37. (Previously Presented) The system of claim 36, wherein a number of time slots of the first dedicated set of time slots is equal to a number of time slots of the third dedicated set of time slots.

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38. (Previously Presented) The system of claim 37, wherein the number of time slots of the second dedicated set of time slots is equal to a number of time slots of the fourth dedicated set of time slots.

39. (Previously Presented) The system of claim 38, wherein the number of time slots of the first dedicated set of time slots is equal to the number time slots of the second dedicated set of time slots.

40. (Previously Presented) The system of claim 36, wherein a number of time slots of the first dedicated set of time slots is different than a number of time slots of the third dedicated set of time slots.

41. (Previously Presented) The system of claim 40, wherein the number of time slots of the second dedicated set of time slots is different than a number of time slots of the fourth dedicated set of time slots.

42. (Currently Amended) A method comprising:

transmitting voice information from a first transceiving unit over a first dedicated set of time slots associated with a first plurality of time frames of a wireless channel;

transmitting data information from the first transceiving unit over a second dedicated set of time slots associated with the first plurality of time frames of a wireless channel; and

changing a transmit frequency of the wireless channel in a pseudo random manner;

wherein each time slot of the first and second dedicated sets of time slots has a fixed time slot position for the plurality of time frames.

43. (Currently Amended) The method of claim 42 further comprising:

receiving voice information at the first transceiving unit over a third dedicated set of time slots associated with a first plurality of time frames of a wireless channel;

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receiving voice information at the first transceiving unit over a fourth dedicated set of time slots associated with the first plurality of time frames of a wireless channel; and
wherein each time slot of the third and fourth dedicated sets of time slots has a fixed time slot position for the plurality of time frames.

44. (Previously Presented) The method of claim 43, wherein a number of time slots associated with the first dedicated set of time slots is equal to a number of time slots associated with the third dedicated set of time slots.

45. (Previously Presented) The method of claim 44, wherein a number of time slots associated with the second dedicated set of time slots is equal to a number of time slots associated with the fourth dedicated set of time slots.

46. (Previously Presented) The method of claim 45 wherein the number of time slots associated with the first dedicated set of time slots is equal to the number of time slots associated with the second dedicated set of time slots.

47. (Previously Presented) The method of claim 42, wherein changing the transmit frequency further comprises changing the transmit frequency of the wireless channel in a pseudo random manner after a predetermined number of time frames.

48. (Currently Amended) A system for concurrent wireless voice and data communications comprising a first transceiving unit coupled to a voice network and to a data network unit, the first transceiving unit operable to wirelessly transmit to a second transceiving unit voice information from the voice network over a first dedicated set of time slots of a plurality of time frames and data information from the data network over a second dedicated set of time slots of the plurality of time frames, the first transceiving unit being further operable to implement a channel comprising the plurality of time frames, wherein a frequency of the channel at which the plurality of time frames is transmitted changes in a pseudo random manner and
wherein each time slot of the first and second dedicated sets of time slots has a fixed time slot position for the plurality of time frames.

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49. (Previously Presented) The system of claim 48 wherein the second transceiving unit is a mobile unit.

50. (Previously Presented) The system of claim 48 wherein the frequency changes in a pseudo random manner between approximately 2401 MHz and 2480 MHz.

51. (Previously Presented) The system of claim 50, wherein the plurality of time frames can be transmitted at one of 75 frequencies.

52. (Currently Amended) A system for concurrent wireless voice and data communications comprising a first transceiving unit operable to wirelessly receive from a second transceiving unit voice information from a voice network over a first dedicated set of time slots of a plurality of time frames and data information from a data network over a second dedicated set of time slots of the plurality of time frames, the first transceiving unit further operable to implement a channel comprising the plurality of time frames, wherein a frequency of the channel at which the plurality of time frames is transmitted changes in a pseudo random manner and wherein each time slot of the first and second dedicated sets of time slots has a fixed time slot position for the plurality of time frames.